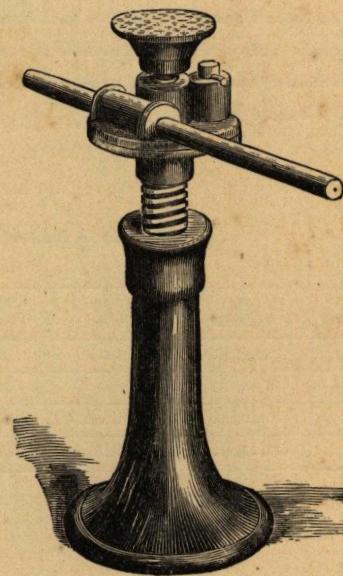


## KNOWLES' PATENT RATCHET JACK SCREWS,

FOR RAISING BUILDINGS AND MOVING HEAVY BODIES; ALSO, SUCH AS ARE ADAPTED TO THE USE OF RAILROAD COMPANIES TO RAISE AND REPLACE CARS AND LOCOMOTIVES.

Fig. 224.



These Jack Screws are made with special reference to strength and durability; great care is taken in the construction of the thread, thereby reducing the friction to its least possible amount. This Patent Jack Screw is so arranged that it can be turned and operated in the most difficult places in the smallest amount of space, as it can be rotated by simply vibrating the lever a few inches.

Great objection has been made to Ratchet Jacks on account of their being restricted to the length of lever, and that of the one provided with it. This Ratchet can be operated with any kind of lever, as well as with the one furnished.

By reference to the accompanying cut, it will be seen that the lever can be passed part way or entirely through the head of the Jack as readily as with the common screw, and can also be turned without removing the lever from its place. This is of great importance in almost every place, and especially in raising buildings.

It needs only to be tried to be appreciated and adopted in every case.

### PRICE LIST.

1½ inch Screw, 8 inch Barrel.....	\$ 6 00 *
1¾ inch Screw, 10 inch Barrel.....	8 00
2 inch Screw, 12 inch Barrel.....	10 00
2½ inch Screw, 15 inch Barrecl.....	15 00
2½ inch Screw, 20 inch Barrel.....	20 00

Other sizes made to order.